Author Index

Abraham, E.C., see Bissé, E. 81
Aravind, M.K.
— , Miceli, J.N. and Kauffman, R.E.
Measurement of cyclosporin by high-performance liquid chromatography following charcoal adsorption from whole blood 428
Ascalone, V.
— , Catalani, P. and Dal Bo', L.
Determination of progabide and its acid metabolite in biological fluids by high-performance liquid chromatography on silica column with ultraviolet detection 231
Bacon, B.R., see Mostow, N.D. 137
Bagchi, S.P.
— , Lutz, T. and Jindal, S.P.
Gas chromatographic—mass spectrometric determination of nomifensine using a stable isotope-labeled analogue as an internal standard 362
Barrington, K.J., see Torok-Both, G.A. 372
Bernard, N., see Julien, C. 51
Bissé, E.
— and Abraham, E.C.
New less temperature-sensitive microchromatographic method for the separation and quantitation of glycosylated hemoglobins using a non-cyanide buffer system 81
Bo', L. Dal, see Ascalone, V. 231
Boissel, J.-P., see Riffe, A. 332
Bonakdar, M., see Wang, J. 412
Bondesson, U., see Sjöberg, P. 167
Bousquet, E.
— , Romeo, G. and Giannola, L.I.
High-performance liquid chromatography with fluorimetric detection in biological tissues of the 4-bromomethyl-7-methoxycoumarin ester derivative of 5-pyrrolidone-2-carboxylic acid 325
Brown, K.F., see Tett, S.E. 241
Bryce, T.A.
— , Burrows, J.L. and Jolley, K.W.
Determination of 1-(3'-carboxypropyl)-3,7-dimethylxanthine and 1-(4'-carboxybutyl)-3,7-dimethylxanthine, two major metabolites of oxpentifylline, in urine by high-performance liquid chromatography 397
Buchanan, D.N.
— and Thoene, J.G.
Photodiode array ultraviolet spectrophotometric profiling of carboxylic acids in physiological fluids 23
Bucheli, F., see Dell, D. 125
Burrows, J.L., see Bryce, T.A. 397
— and Jolley, K.W.
Determination of oxpentifylline and four metabolites in plasma and urine by automated capillary gas chromatography using nitrogen-selective detection 187
Buzello, W., see Williams, C.H. 71
Carlqvist, J.
— and Westerlund, D.
Automated determination of amoxycillin in biological fluids by column switching in ion-pair reversed-phase liquid chromatographic systems with post-column derivatization 285
Castoldi, D.
— , Monzani, V. and Tofanetti, O.
Determination of bezafibrate in human plasma and urine by high-performance liquid chromatography 259
Catalani, P., see Ascalone, V. 231
Cataldi, T.R.I., see Palmisano, F. 249
Chan, P.H., see Chen, S.F. 297
Chen, S.F.
— and Chan, P.H.
One-step separation of free fatty acids and phospholipids in brain tissue extracts by high-performance liquid chromatography 297
Coutts, R.T., see Torok-Both, G.A. 372
Cowlishaw, M.G.
— and Sharman, J.R.
Doxazosin determination by high-performance liquid chromatography using fluorescence detection 403
Crawhall, J.C., see Kremer, R. 313
Cronholm, T.
— and Norsten, C.
Gas chromatography—mass spectrometry of carboxylic acids in tissues as their *tert.*-butyldimethylsilyl derivatives 1
Cuisinaud, G., see Julien, C. 51
Cutler, D.J., see Tett, S.E. 241
Dal Bo', L., see Ascalone, V. 231
Dell, D.
— , Wendt, G., Bucheli, F. and Trautmann, K.-H.
Determination of pyrrolidinone in plasma by high-performance liquid chromatography 125

Author Index

Abraham, E.C., see Bissé, E. 81
Aravind, M.K.
— , Miceli, J.N. and Kauffman, R.E.
Measurement of cyclosporin by high-performance liquid chromatography following charcoal adsorption from whole blood 428
Ascalone, V.
— , Catalani, P. and Dal Bo', L.
Determination of progabide and its acid metabolite in biological fluids by high-performance liquid chromatography on silica column with ultraviolet detection 231
Bacon, B.R., see Mostow, N.D. 137
Bagchi, S.P.
— , Lutz, T. and Jindal, S.P.
Gas chromatographic—mass spectrometric determination of nomifensine using a stable isotope-labeled analogue as an internal standard 362
Barrington, K.J., see Torok-Both, G.A. 372
Bernard, N., see Julien, C. 51
Bissé, E.
— and Abraham, E.C.
New less temperature-sensitive microchromatographic method for the separation and quantitation of glycosylated hemoglobins using a non-cyanide buffer system 81
Bo', L. Dal, see Ascalone, V. 231
Boissel, J.-P., see Riffe, A. 332
Bonakdar, M., see Wang, J. 412
Bondesson, U., see Sjöberg, P. 167
Bousquet, E.
— , Romeo, G. and Giannola, L.I.
High-performance liquid chromatography with fluorimetric detection in biological tissues of the 4-bromomethyl-7-methoxycoumarin ester derivative of 5-pyrrolidone-2-carboxylic acid 325
Brown, K.F., see Tett, S.E. 241
Bryce, T.A.
— , Burrows, J.L. and Jolley, K.W.
Determination of 1-(3'-carboxypropyl)-3,7-dimethylxanthine and 1-(4'-carboxybutyl)-3,7-dimethylxanthine, two major metabolites of oxpentifylline, in urine by high-performance liquid chromatography 397
Buchanan, D.N.
— and Thoene, J.G.
Photodiode array ultraviolet spectrophotometric profiling of carboxylic acids in physiological fluids 23
Bucheli, F., see Dell, D. 125
Burrows, J.L., see Bryce, T.A. 397
— and Jolley, K.W.
Determination of oxpentifylline and four metabolites in plasma and urine by automated capillary gas chromatography using nitrogen-selective detection 187
Buzello, W., see Williams, C.H. 71
Carlqvist, J.
— and Westerlund, D.
Automated determination of amoxycillin in biological fluids by column switching in ion-pair reversed-phase liquid chromatographic systems with post-column derivatization 285
Castoldi, D.
— , Monzani, V. and Tofanetti, O.
Determination of bezafibrate in human plasma and urine by high-performance liquid chromatography 259
Catalani, P., see Ascalone, V. 231
Cataldi, T.R.I., see Palmisano, F. 249
Chan, P.H., see Chen, S.F. 297
Chen, S.F.
— and Chan, P.H.
One-step separation of free fatty acids and phospholipids in brain tissue extracts by high-performance liquid chromatography 297
Coutts, R.T., see Torok-Both, G.A. 372
Cowlishaw, M.G.
— and Sharman, J.R.
Doxazosin determination by high-performance liquid chromatography using fluorescence detection 403
Crawhall, J.C., see Kremer, R. 313
Cronholm, T.
— and Norsten, C.
Gas chromatography—mass spectrometry of carboxylic acids in tissues as their *tert.*-butyldimethylsilyl derivatives 1
Cuisinaud, G., see Julien, C. 51
Cutler, D.J., see Tett, S.E. 241
Dal Bo', L., see Ascalone, V. 231
Dell, D.
— , Wendt, G., Bucheli, F. and Trautmann, K.-H.
Determination of pyrrolidinone in plasma by high-performance liquid chromatography 125

Delpech, M., see Riffe, A. 332
Deshmukh, K., see Wang, J. 412
De Silva, J.A.F., see Puglisi, C.V. 199
Dow, J.
— , Lemar, M., Frydman, A. and Gaillot, J.
Automated high-performance liquid chromatographic determination of spiramycin by direct injection of plasma, using column-switching for sample clean-up 275
Dozier, S.E., see Williams, C.H. 71
Edelson, J., see McCoy, L. 211
Edwards, D.J.
— , Mallinger, A.G., Knopf, S. and Himmelhoch, J.M.
Determination of tranylcypromine in plasma using gas chromatography—chemical-ionization mass spectrometry 356
Ensminger, W.D., see Stetson, P.L. 385
Esterbauer, H., see Gleispach, H. 11
Ferrara, F.J., see Puglisi, C.V. 199
Franz, H.E., see Kohse, K.P. 319
Frydman, A., see Dow, J. 275
Fürst, P., see Kohse, K.P. 319
Fukuda, H., see Yamatodani, A. 115
Gaillot, J., see Dow, J. 275
Gaskell, S.J., see Parker, C.E. 378
Gehrke, C.W., see Williams, C.H. 71
Gerhardt, K.O., see Williams, C.H. 71
Giannola, L.I., see Bousquet, E. 325
Gleispach, H.
— , Moser, R., Mayer, B., Esterbauer, H., Skriletz, U., Zierman, L. and Leis, H.J.
Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by gas chromatography—mass spectrometry 11
Gmur, D.J.
— , Yee, G.C. and Kennedy, M.S.
Modified column-switching high-performance liquid chromatographic method for the measurement of cyclosporine in serum 422
Godel, H.G., see Kohse, K.P. 319
Goewie, C.E.
— and Hogendoorn, E.A.
Liquid chromatographic determination of bromide in human milk and plasma 157
Graser, T.A., see Kohse, K.P. 319
Gupta, R.N.
— and Lew, M.
Liquid chromatographic determination of mexiletine and tocainide in human plasma with fluorescence detection after reaction with modified *o*-phthalaldehyde reagent 221
Hagardorn, A.N., see Robert, T.A. 177
Hara, S., see Iwata, T. 351
— , Takemori, Y., Yamaguchi, M., Nakamura, M. and Ohkura, Y.
Determination of α-keto acids in serum and urine by high-performance liquid chromatography with fluorescence detection 33
Hatake, K.
— , Motoyoshi, K., Ishizaka, Y., Saito, M., Takaku, F. and Miura, Y.
Purification of human urinary colony-stimulating factor by high-performance liquid chromatography 339
Himmelhoch, J.M., see Edwards, D.J. 356
Hogendoorn, E.A., see Goewie, C.E. 157
Horstmann, M.
Simple high-performance liquid chromatographic method for rapid determination of nicotine and cotinine in urine 391
Ishida, J.
— , Kai, M. and Ohkura, Y.
Determination of *p*-hydroxybestatin in human serum by high-performance liquid chromatography using fluorescence detection 267
Ishizaka, Y., see Hatake, K. 339
Iwaeda, T., see Yamatodani, A. 115
Iwata, T.
— , Yamaguchi, M., Hara, S., Nakamura, M. and Ohkura, Y.
Determination of total ascorbic acid in human serum by high-performance liquid chromatography with fluorescence detection 351
Jamali, F., see Torok-Both, G.A. 372
Jindal, S.P., see Bagchi, S.P. 362
Jolley, K.W., see Bryce, T.A. 397
— , see Burrows, J.L. 187
Julien, C.
— , Rodriguez, C., Cuisinaud, G., Bernard, N. and Sassard, J.
Measurement of urinary catecholamines and their catechol metabolites and precursor by liquid chromatography with column-switching and on-line fluorimetric and electrochemical detection 51
Jung, D., see Shah, A. 408
Kai, M., see Ishida, J. 267
Kaneda, N.
— , Noro, Y. and Nagatsu, T.
Highly sensitive assay for acetylcholin-

esterase activity by high-performance liquid chromatography with electrochemical detection 93
Kauffman, R.E., see Aravind, M.K. 428
Kennedy, M.S., see Gmur, D.J. 422
Knopf, S., see Edwards, D.J. 356
Kohse, K.P.
— , Graser, T.A., Godel, H.G., Rössle, C., Franz, H.E. and Fürst, P.
High-performance liquid chromatographic determination of plasma free trimethyllysine in humans 319
Kolanitch, R., see Kremer, R. 313
Korach, K.S., see Parker, C.E. 378
Kremer, R.
— , Crawhall, J.C. and Kolanitch, R.
Rapid and reliable estimation of urinary free catecholamines in patients with pheochromocytoma: comparison with plasma catecholamines and vanillylmandelic acid excretion 313
Kruh, J., see Riffe, A. 332
Kuhnz, W.
— , Zimmerman, B. and Nau, H.
Improved separation of phospholipids by high-performance liquid chromatography 309
Laufen, H., see Räder, K. 416
Leis, H.J., see Gleispach, H. 11
Lemar, M., see Dow, J. 275
Levy, L.A., see Parker, C.E. 378
Levy-Favatier, F., see Riffe, A. 332
Lew, M., see Gupta, R.N. 221
Lutz, T., see Bagchi, S.P. 362
McCoy, L.
— , Skee, D. and Edelson, J.
Determination of fezolamine and its desmethyl metabolite in human plasma and urine by high-performance liquid chromatography 211
Mallinger, A.G., see Edwards, D.J. 356
Massart, D.L., see Michotte, Y. 367
Mayer, B., see Gleispach, H. 11
Miceli, J.N., see Aravind, M.K. 428
Michotte, Y.
— and Massart, D.L.
Capillary gas chromatographic determination of vincamine in plasma 367
Mitsui, A.
— , Nohta, H. and Ohkura, Y.
High-performance liquid chromatography of plasma catecholamines using 1,2-diphenylethylenediamine as precolumn fluorescence derivatization reagent 61
Miura, Y., see Hatake, K. 339
Miyazaki, T., see Yoshioka, M. 345
Monzani, V., see Castoldi, D. 259
Morris, G.S.
— and Simmonds, H.A.
Use of a fundamental elution protocol for the development of reversed-phase high-performance liquid chromatography enabling rapid simultaneous determination of purines, pyrimidines and allied compounds commonly found in human biological fluids 101
Moser, R., see Gleispach, H. 11
Mostow, N.D.
— , O'Neill, R., Noon, D.L. and Bacon, B.R.
Determination of α-tocopherol in rat liver by high-performance liquid chromatography utilizing ultraviolet detection 137
Motoyoshi, K., see Hatake, K. 339
Nagatsu, T., see Kaneda, N. 93
Nakamura, M., see Hara, S. 33
— , see Iwata, T. 351
Nau, H., see Kuhnz, W. 309
Nohta, H., see Mitsui, A. 61
Noon, D.L., see Mostow, N.D. 137
Noro, Y., see Kaneda, N. 93
Norsten, C., see Cronholm, T. 1
Ohkura, Y., see Hara, S. 33
— , see Ishida, J. 267
— , see Iwata, T. 351
— , see Mitsui, A. 61
O'Neill, R., see Mostow, N.D. 137
Palmisano, F.
— , Cataldi, T.R.I. and Zambonin, P.G.
Determination of the antineoplastic agent methotrexate in body fluids by high-performance liquid chromatography with electrochemical detection 249
Pao, J., see Puglisi, C.V. 199
Parker, C.E.
— , Levy, L.A., Smith, R.W., Yamaguchi, K., Gaskell, S.J. and Korach, K.S.
Separation and detection of enantiomers of stilbestrol analogues by combined high-performance liquid chromatography—thermospray mass spectrometry 378
Pasutto, F.M., see Torok-Both, G.A. 372
Puglisi, C.V.
— , Pao, J., Ferrara, F.J. and De Silva, J.A.F.
Determination of midazolam (Versed®) and its metabolites in plasma by high-performance liquid chromatography 199

Räder, K.
— , Wildfeuer, A., Schwedass, A. and Laufen, H.
Determination of josamycin in plasma, erythrocytes and leucocytes via high-performance liquid chromatography by direct injection of plasma or homogenized blood cells, using alternating sample clean-up columns 416
Riffe, A.
— , Delpech, M., Levy-Favatier, F., Boissel, J.-P. and Kruh, J.
Analysis and preparation of chromosomal high-mobility group proteins by ion-exchange high-performance liquid chromatography 332
Robert, R.A.
— and Hagardorn, A.N.
Plasma levels in kinetic disposition of 2,4-dinitrophenol and its metabolites 2-amino-4-nitrophenol and 4-amino-2-nitrophenol in the mouse 177
Rodriguez, C., see Julien, C. 51
Roemen, Th.H.M.
— and Van der Vusse, G.J.
Application of silica gel column chromatography in the assessment of non-esterified fatty acids and phosphoglycerides in myocardial tissue 304
Rössle, C., see Kohse, K.P. 319
Romeo, G., see Bousquet, E. 325
Saito, M., see Hatake, K. 339
Sassard, J., see Julien, C. 51
Schwedass, A., see Räder, K. 416
Senda, M., see Yoshioka, M. 345
Shah, A.
— and Jung, D.
Improved high-performance liquid chromatographic assay of ibuprofen in plasma 408
Shah, J.A.
— and Weber, D.J.
High-performance liquid chromatographic assay for methylprednisolone and its soluble prodrug esters in dog plasma 41
Sharman, J.R., see Cowlishaw, M.G. 403
Shintani, H.
— and Ube, S.
Simultaneous determination of serum cations, anions and uremic toxins by ion chromatography using an immobilized enzyme 145
Shukla, U.S., see Stetson, P.L. 385
Silva, J.A.F. de, see Puglisi, C.V. 199
Simmonds, H.A., see Morris, G.S. 101
Sjöberg, P.
— and Bondesson, U.
Determination of di(2-ethylhexyl) phthalate and four of its metabolites in blood plasma by gas chromatography—mass spectrometry 167
Skee, D., see McCoy, L. 211
Skriletz, U., see Gleispach, H. 11
Smith, R.W., see Parker, C.E. 378
Stetson, P.L.
— , Shukla, U.A. and Ensminger, W.D.
Sensitive high-performance liquid chromatographic method for the determination of 5-fluorouracil in plasma 385
Takaku, F., see Hatake, K. 339
Takemori, Y., see Hara, S. 33
Tamura, Z., see Yoshioka, M. 345
Tett, S.E.
— , Cuttler, D.J. and Brown, K.F.
High-performance liquid chromatographic assay for hydroxychloroquine and metabolites in blood and plasma, using a stationary phase of poly(styrene divinylbenzene) and a mobile phase at pH 11, with fluorimetric detection 241
Thoene, J.G., see Buchanan, D.N. 23
Tofanetti, O., see Castoldi, D. 259
Torok-Both, G.A.
— , Coutts, R.T., Jamali, F., Pasutto, F.M. and Barrington, K.J.
Sensitive nitrogen—phosphorus capillary gas chromatographic assay for doxapram in premature infants 372
Trautmann, K.-H., see Dell, D. 125
Ube, S., see Shintani, H. 145
Van der Vusse, G.J., see Roemen, Th.H.M. 304
Vusse, G.J. van der, see Roemen, Th.H.M. 304
Wada, H., see Yamatodani, A. 115
Wang, J.
— , Bonakdar, M. and Deshmukh, K.
Measurement of labetalol by high-performance liquid chromatography with electrochemical detection 412
Watanabe, T., see Yamatodani, A. 115
Weber, D.J., see Shah, J.A. 41
Wendt, G., see Dell, D. 125
Westerlund, D., see Carlqvist, J. 285
Wildfeuer, A., see Räder, K. 416
Williams, C.H.
— , Dozier, S.E., Buzello, W., Gehrke, C.W., Wong, J.K. and Gerhardt, K.O.
Plasma levels of norepinephrine and epinephrine during malignant hyperthermia in susceptible pigs 71
Wong, J.K., see Williams, C.H. 71
Yamaguchi, K., see Parker, C.E. 378

Yamaguchi, M., see Hara, S. 33
— , see Iwata, T. 351
Yamatodani, A.
— , Fukuda, H., Wada, H., Iwaeda, T. and Watanabe, T.
High-performance liquid chromatographic determination of plasma and brain histamine without previous purification of biological samples: cation-exchange chromatography coupled with post-column derivatization fluorometry 115
Yee, G.C., see Gmur, D.J. 422
Yoshioka, M.
— , Tamura, Z., Senda, M. and Miyazaki, T.
Analyser of adenine nucleotides 345
Zambonin, P.G., see Palmisano, F. 249
Zierman, L., see Gleispach, H. 11
Zimmerman, B., see Kuhnz, W. 309

Subject Index

Acetylcholine
Highly sensitive assay for acetylcholinesterase activity by HPLC with electrochemical detection 93

Acetylcholinesterase
Highly sensitive assay for acetylcholinesterase activity by HPLC with electrochemical detection 93

Adenine nucleotides
Analyser of adenine nucleotides 345

ADP
Analyser of adenine nucleotides 345

Aminonitrophenol
Plasma levels and kinetic disposition of 2,4-dinitrophenol and its metabolites 2-amino-4-nitrophenol and 4-amino-2-nitrophenol in the mouse 177

Amoxycillin
Automated determination of amoxycillin in biological fluids by column switching in ion-pair reversed-phase LC systems with post-column derivatization 285

AMP
Analyser of adenine nucleotides 345

Anions, serum
Simultaneous determination of serum cations, anions and uremic toxins by ion chromatography using an immobilized enzyme 145

Arachidonic acid, metabolites
Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by GC—MS 11

Ascorbic acid
Determination of total ascorbic acid in human serum by HPLC with fluorescence detection 351

ATP
Analyser of adenine nucleotides 345

Bases
Use of fundamental elution protocol for the development of reversed-phase HPLC enabling rapid simultaneous determination of purines, pyrimidines and allied compounds commonly found in human biological fluids 101

Bezafibrate
Determination of bezafibrate in human plasma and urine by HPLC 259

Bisdesethylchloroquine
HPLC assay for hydroxychloroquine and metabolites in blood and plasma, using a stationary phase of poly(styrene divinylbenzene) and a mobile phase at pH 11, with fluorimetric detection 241

Bromide
LC determination of bromide in human milk and plasma 157

1-(4′-Carboxybutyl)-3,7-dimethylxanthine
Determination of 1-(3′-carboxypropyl)-3,7-dimethylxanthine and 1-(4′-carboxybutyl)-3,7-dimethylxanthine, two major metabolites of oxpentifylline, in urine by HPLC 397

Carboxylic acids
GC—MS of carboxylic acids in tissues as their *tert.*-butyldimethylsilyl derivatives 1

Carboxylic acids
Photodiode array ultraviolet spectrophotometric profiling of carboxylic acids in physiological fluids 23

1-(3′-Carboxypropyl)-3,7-dimethylxanthine
Determination of 1-(3′-carboxypropyl)-3,7-dimethylxanthine and 1-(4′-carboxybutyl)-3,7-dimethylxanthine, two major metabolites of oxpentifylline, in urine by HPLC 397

Catecholamines
HPLC of plasma catecholamines using 1,2-diphenylethylenediamine as precolumn fluorescence derivatization reagent 61

Catecholamines
Measurement of urinary catecholamines and their catechol metabolites and precursor by LC with column-switching and on-line fluorimetric and electrochemical detection 51

Catecholamines
Plasma levels of norepinephrine and epinephrine during malignant hyperthermia in susceptible pigs 71

Catecholamines
Rapid and reliable estimation of urinary free catecholamines in patients with pheochromocytoma: comparison with plasma catecholamines and vanillylmandelic acid excretion 313

Cations, serum
Simultaneous determination of serum cations, anions and uremic toxins by ion chromatography using an immobilized enzyme 145

8-Chloro-6-(2-fluorophenyl)-4H-imidazo-[1,5-a][1,4]-benzodiazepine
Determination of midazolam (Versed®) and its metabolites in plasma by HPLC 199
Choline
Highly sensitive assay for acetylcholinesterase activity by HPLC with electrochemical detection 93
Colony-stimulating factor
Purification of human urinary colony-stimulating factor by HPLC 339
Cotinine
Simple HPLC method for rapid determination of nicotine and cotinine in urine 391
Cyclosporin
Measurement of cyclosporin by HPLC following charcoal adsorption from whole blood 428
Cyclosporin
Modified column-switching HPLC method for the measurement of cyclosporin in serum 422
Desethylchloroquine
HPLC assay for hydroxychloroquine and metabolites in blood and plasma, using a stationary phase of poly(styrene divinylbenzene) and a mobile phase at pH 11, with fluorimetric detection 241
Desethylhydroxychloroquine
HPLC assay for hydroxychloroquine and metabolites in blood and plasma, using a stationary phase of poly(styrene divinylbenzene) and a mobile phase at pH 11, with fluorimetric detection 241
Desmethylfezolamine
Determination of fezolamine and its desmethyl metabolite in human plasma and urine by HPLC. Intravenous pharmacokinetics in the beagle hound 211
1-Desmethylmidazolam
Determination of midazolam (Versed®) and its metabolites in plasma by HPLC 199
Didesmethylfezolamine
Determination of fezolamine and its desmethyl metabolite in human plasma and urine by HPLC. Intravenous pharmacokinetics in the beagle hound 211
Di(2-ethylhexyl) phthalate
Determination of di(2-ethylhexyl) phthalate and four of its metabolites in blood plasma by GC—MS 167
1-Dihydroxyhexyl-3,7-dimethylxanthines
Determination of oxpentifylline and four metabolites in plasma and urine by automated capillary GC using nitrogen-selective detection 187
3,4-Dihydroxymandelic acid
Measurement of urinary catecholamines and their catechol metabolites and precursor by LC with column-switching and on-line fluorimetric and electrochemical detection 51
3,4-Dihydroxyphenylacetic acid
Measurement of urinary catecholamines and their catechol metabolites and precursor by LC with column-switching and on-line fluorimetric and electrochemical detection 51
3,4-Dihydroxyphenylalanine
Measurement of urinary catecholamines and their catechol metabolites and precursor by LC with column-switching and on-line fluorimetric and electrochemical detection 51
3,4-Dihydroxyphenylethanol
Measurement of urinary catecholamines and their catechol metabolites and precursor by LC with column-switching and on-line fluorimetric and electrochemical detection 51
3,4-Dihydroxyphenylethylene glycol
Measurement of urinary catecholamines and their catechol metabolites and precursor by LC with column-switching and on-line fluorimetric and electrochemical detection 51
2,4-Dinitrophenol
Plasma levels and kinetic disposition of 2,4-dinitrophenol and its metabolites 2-amino-4-nitrophenol and 4-amino-2-nitrophenol in the mouse 177
Dopamine
HPLC of plasma catecholamines using 1,2-diphenylethylenediamine as precolumn fluorescence derivatization reagent 61
Dopamine
Rapid and reliable estimation of urinary free catecholamines in patients with pheochromocytoma: comparison with plasma catecholamines and vanillylmandelic acid excretion 313
Doxapram
Sensitive nitrogen—phosphorus capillary GC assay for doxapram in premature infants 372
Doxazosin
Doxasozin determination by HPLC using fluorescence detection 403
Epinephrine
HPLC of plasma catecholamines using 1,2-diphenylethylenediamine as precol-

umn fluorescence derivatization reagent 61

Epinephrine
Plasma levels of norepinephrine and epinephrine during malignant hyperthermia in susceptible pigs 71

Epinephrine
Rapid and reliable estimation of urinary free catecholamines in patients with pheochromocytoma: comparison with plasma catecholamines and vanillylmandelic acid excretion 313

Fatty acids
Application of silica gel column chromatography in the assessment of non-esterified fatty acids and phosphoglycerides in myocardial tissue 304

Fatty acids
One-step separation of free fatty acids and phospholipids in brain tissue extracts by HPLC 297

Fezolamine
Determination of fezolamine and its desmethyl metabolite in human plasma and urine by HPLC. Intravenous pharmacokinetics in the beagle hound 211

5-Fluorouracil
Sensitive HPLC method for the determination of 5-fluorouracil in plasma 385

Free fatty acids
One-step separation of free fatty acids and phospholipids in brain tissue extracts by HPLC 297

Haemoglobins
New less temperature-sensitive microchromatographic method for the separation and quantitation of glycosylated hemoglobins using a non-cyanide buffer system 81

High-mobility group proteins
Analysis and preparation of chromosomal high-mobility group proteins by ion-exchange HPLC 332

Histamine
HPLC determination of plasma and brain histamine without previous purification of biological samples: cation-exchange chromatography coupled with post-column derivatization fluorometry 115

p-Hydroxybestatin
Determination of *p*-hydroxybestatin in human serum by HPLC using fluorescence detection 267

Hydroxychloroquine
HPLC assay for hydroxychloroquine and metabolites in blood and plasma, using a stationary phase of poly(styrene divinylbenzene) and a mobile phase at pH 11, with fluorimetric detection 241

Hydroxyeicosatetraenoic acids
Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by GC—MS 11

Hydroxy fatty acids
Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by GC—MS 11

12-Hydroxyheptadecatrienoic acid
Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by GC—MS 11

1-(5'-Hydroxyhexyl)-3,7-dimethylxanthine
Determination of oxpentifylline and four metabolites in plasma and urine by automated capillary GC using nitrogen-selective detection 187

4-Hydroxy-1-hydroxmethylmidazolam
Determination of midazolam (Versed®) and its metabolites in plasma by HPLC 199

1-Hydroxymethylmidazolam
Determination of midazolam (Versed®) and its metabolites in plasma by HPLC 199

4-Hydroxymidazolam
Determination of midazolam (Versed®) and its metabolites in plasma by HPLC 199

Ibuprofen
Improved HPLC assay of ibuprofen in plasma 408

Josamycin
Determination of josamycin in plasma, erythrocytes and leucocytes via HPLC by direct injection of plasma or homogenized blood cells, using alternating sample clean-up columns 416

α-Keto acids
Determination of α-keto acids in serum and urine by HPLC with fluorescence detection 33

Labetalol
Measurement of labetalol by HPLC with electrochemical detection 412

Methotrexate
Determination of the antineoplastic

agent methotrexate in body fluids by HPLC with electrochemical detection 249
Methylprednisolone
HPLC assay for methylprednisolone and its soluble prodrug esters in plasma 41
Mexiletine
LC determination of mexiletine and tocainide in human plasma with fluorescence detection after reaction with a modified *o*-phthalaldehyde reagent 221
Midazolam
Determination of midazolam (Versed®) and its metabolites in plasma by HPLC 199
Mono(5-carboxy-2-ethylpentyl) phthalate
Determination of di(2-ethylhexyl) phthalate and four of its metabolites in blood plasma by GC—MS 167
Mono(2-ethylhexyl) phthalate
Determination of di(2-ethylhexyl) phthalate and four of its metabolites in blood plasma by GC—MS 167
Mono(2-ethyl-5-hydroxyhexyl) phthalate
Determination of di(2-ethylhexyl) phthalate and four of its metabolites in blood plasma by GC—MS 167
Mono(2-ethyl-5-oxohexyl) phthalate
Determination of di(2-ethylhexyl) phthalate and four of its metabolites in blood plasma by GC—MS 167
Nicotine
Simple HPLC method for rapid determination of nicotine and cotinine in urine 391
Nomifensine
GC—MS determination of nomifensine using a stable isotope-labeled analogue as an internal standard 362
Norepinephrine
HPLC of plasma catecholamines using 1,2-diphenylethylenediamine as precolumn fluorescence derivatization reagent 61
Norepinephrine
Plasma levels of norepinephrine and epinephrine during malignant hyperthermia in susceptible pigs 71
Norepinephrine
Rapid and reliable estimation of urinary free catecholamines in patients with pheochromocytoma: comparison with plasma catecholamines and vanillylmandelic acid excretion 313
Nucleosides
Use of fundamental elution protocol for the development of reversed-phase HPLC enabling rapid simultaneous determination of purines, pyrimidines and allied compounds commonly found in human biological fluids 101
Nucleotides
Analyser of adenine nucleotides 345
Oxpentifylline
Determination of 1-(3'-carboxypropyl)-3,7-dimethylxanthine and 1-(4'-carboxybutyl-3,7-dimethylxanthine, two major metabolites of oxpentifylline, in urine by HPLC 397
Oxpentifylline
Determination of oxpentifylline and four metabolites in plasma and urine by automated capillary GC using nitrogen-selective detection 187
trans-2-Phenylcyclopropylamine
Determination of tranylcypromine in plasma using GC—chemical-ionization MS 356
Phosphoglycerides
Application of silica gel column chromatography in the assessment of non-esterified fatty acids and phosphoglycerides in myocardial tissue 304
Phospholipids
Improved separation of phospholipids by HPLC 309
Phospholipids
One-step separation of free fatty acids and phospholipids in brain tissue extracts by HPLC 297
Progabide
Determination of progabide and its acid metabolite in biological fluids by HPLC on silica columns with ultraviolet detection 231
Prostaglandins
Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by GC—MS 11
Proteins
Analysis and preparation of chromosomal high-mobility group proteins by ion-exchange HPLC 332
Purines
Use of fundamental elution protocol for the development of reversed-phase HPLC enabling rapid simultaneous determination of purines, pyrimidines and allied compounds commonly found in human biological fluids 101

Pyrimidines
Use of fundamental elution protocol for the development of reversed-phase HPLC enabling rapid simultaneous determination of purines, pyrimidines and allied compounds commonly found in human biological fluids 101
Pyrrolidinone
Determination of pyrrolidinone in plasma by HPLC 125
5-Pyrrolidone-2-carboxylic acid
HPLC with fluorimetric detection in biological tissues of the 4-bromomethyl-7-methoxycoumarin ester derivative of 5-pyrrolidone-2-carboxylic acid 325
Spiramycin
Automated HPLC determination of spiramycin by direct injection of plasma, using column-switching for sample clean-up 275
Stilboestrol
Separation and detection of enantiomers of stilbestrol analogues by combined HPLC—thermospray MS 378
Thromboxanes
Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by GC—MS 11
Tocainide
LC determination of mexiletine and tocainide in human plasma with fluorescence detection after reaction with a modified *o*-phthalaldehyde reagent 221
α-Tocopherol
Determination of α-tocopherol in rat liver by HPLC utilizing ultraviolet detection 137
Toxins, uraemic
Simultaneous determination of serum cations, anions and uremic toxins by ion chromatography using an immobilized enzyme 145
Tranylcypromine
Determination of tranylcypromine in plasma using GC—chemical-ionization MS 356
Trimethyllysine
HPLC determination of plasma free trimethyllysine in humans 319
Uraemic toxins
Simultaneous determination of serum cations, anions and uremic toxins by ion chromatography using an immobilized enzyme 145
Vanillylmandelic acid
Rapid and reliable estimation of urinary free catecholamines in patients with pheochromocytoma: comparison with plasma catecholamines and vanillylmandelic acid excretion 313
Versed
Determination of midazolam (Versed®) and its metabolites in plasma by HPLC 199
Vincamine
Capillary GC determination of vincamine in plasma 367